



1/5

MDQSSRRDESYHETHPGSLDPSSHQSHPHPTLHRPNQGGVYDSPQH 50  
GMFQQQPYQQHGGFHQQNELQHLLREFSDSHDNAFSHHSYQQDRAVSTLPN 100  
NISHAYGGSHPLAESQHSGPQSGPRIDPNHHPHQDDPHRPSEPLSHPSS 150  
TGSHQGTTHQHQYHERSHHLLNPQQNQRDHADTISYRSSTRFYRSHAPFSRQE 200  
RPHLHADHHHEGHHAHSHHGEHPHHKEQRHYHGDHMHHHHRSPSASQL 250  
SEGEDHVQKRKKAQRAHKKAHTGNIFQLLWEKISHLLGLQQMILSLTQS 350

S1 S2 S3 S4 S5 S6

UCFETFIFIUVCLNTVILVAQTETELEIRGEWYF**MVLD**SIFL**SIYV**LEAV 400

LKLI**AL**GLEYFYDPWNND**FF**FIMVMAVLDFV**ULL**QINSLSYSFYNHS**FRI** 450

LKV**E**FKSMRALRAIRV**R**RL**SIL**TSLHEVAGTL**G**SLPS**I**TAIL**T**LMFTCL 500

FLFSVVLRA**L**FQDSDPKRFQN**I**FTT**L**FT**M**LT**L**DDWS**L**IYIDNRQAQGA 550

WY**T**I**P**ILMIYIVI**Q**YF**I**FLNLVIAV**I**DNFQMA**L**KGLEK**V**KLEQ**A**RVH 600

EKL**L**DD**S**LT**D**LN**K**ADAN**A**QM**T**EE**E**ALK**M**QL**I**EGMF**G**NMT**V**K**Q**RVL**H**F**Q**FLQ 650

LVA**A**VE**Q**H**Q**Q**K**FR**S**Q**A**Y**V**IDE**L**VD**M**AF**E**AG**DD**Y**G**K 686

FIG. 1A

2/5

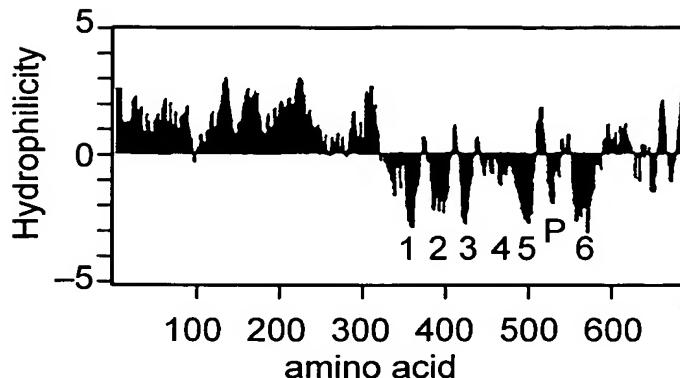


FIG. 1B

	Pore region
CatSper	RFQNIIFTTLFTLFTMLTLDDWSLIVYID
Cav1.2	NFDNFAFAMLTVFQCITMEGWTDVLYN
I Cav2.2	NFDNILFAILTVFQCITMEGWTDILYN
Cav3.1	NFDNIGYAWIAIFQVITLEGWVDIMYF
Cav1.2	TFDNFPQSLLTVFQILTGEDWNSVMYD
II Cav2.2	NFDTFPAAILTVFQILTGEDWNAVMYN
Cav3.1	NFDSLLWAIIVTVFQILTQEDWNKVLYN
Cav1.2	DFDNVLAAMMALFTVSTFEGWPELLYR
III Cav2.2	HYDNVLWALLTLFTVSTGEGWPMYLKH
Cav3.1	NFDNLGQALMSLFVLAASKDGWVDIMYD
Cav1.2	NFQTFPQAVLLLPRCATGEAWQDIMLA
IV Cav2.2	NFRTFLQALMLLFRSATGEAWHEIMLS
Cav3.1	TFRNFGMAFLTLFRVSTGDNWNGIMKD

FIG. 1C

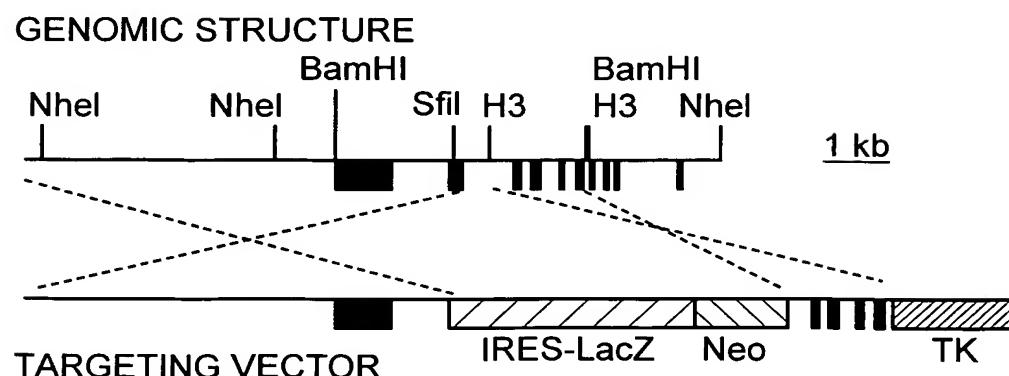


FIG. 2

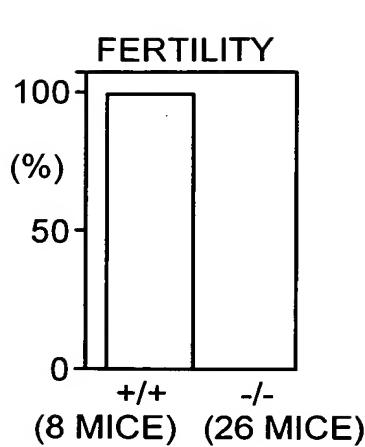


FIG. 3A

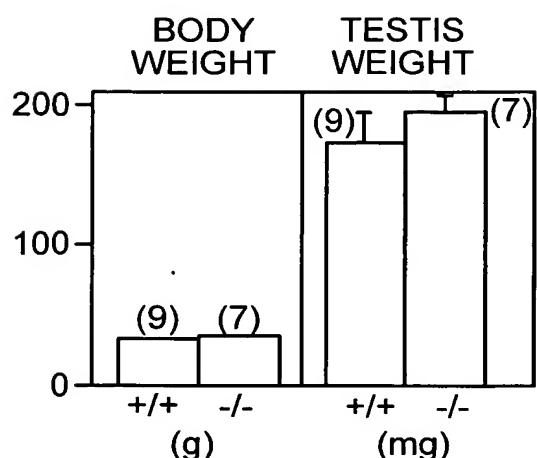


FIG. 3B

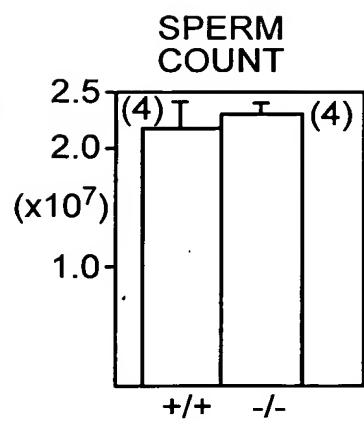


FIG. 3C

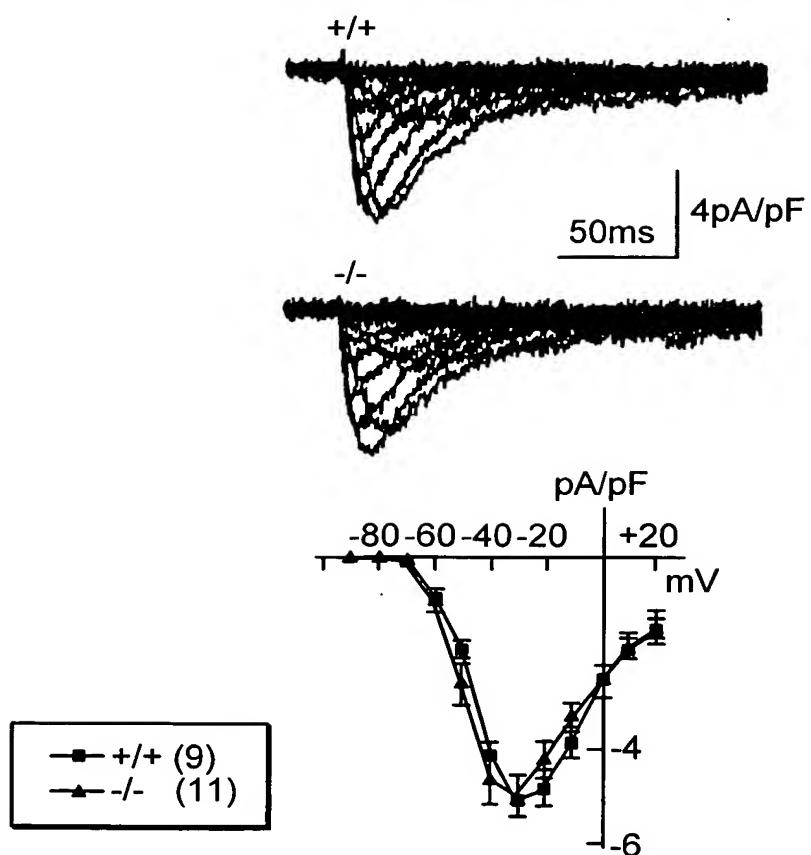


FIG. 3D

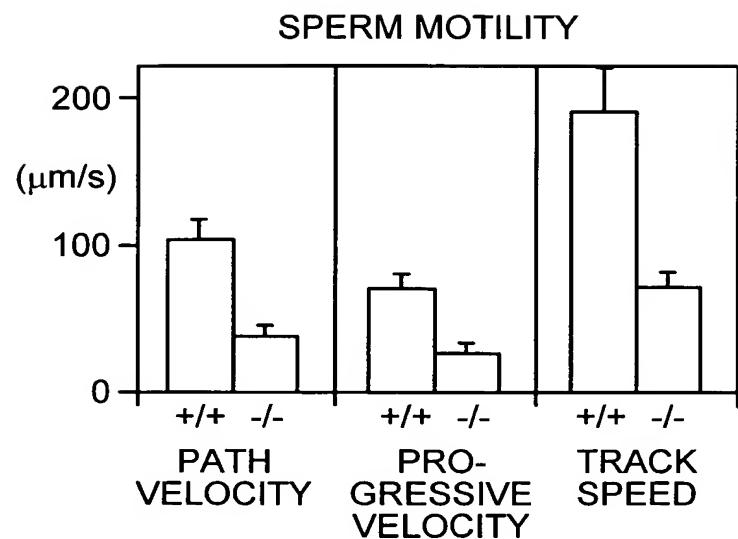


FIG. 4A

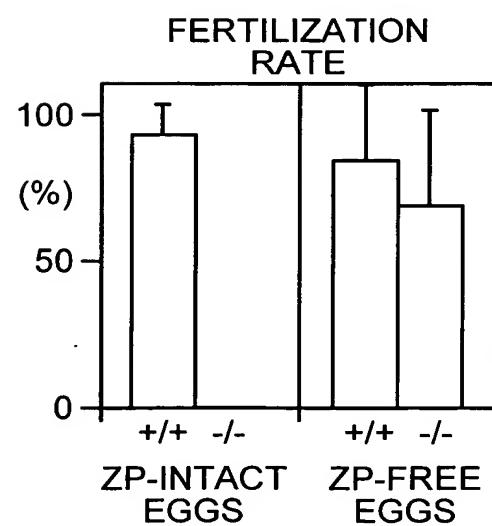


FIG. 4B

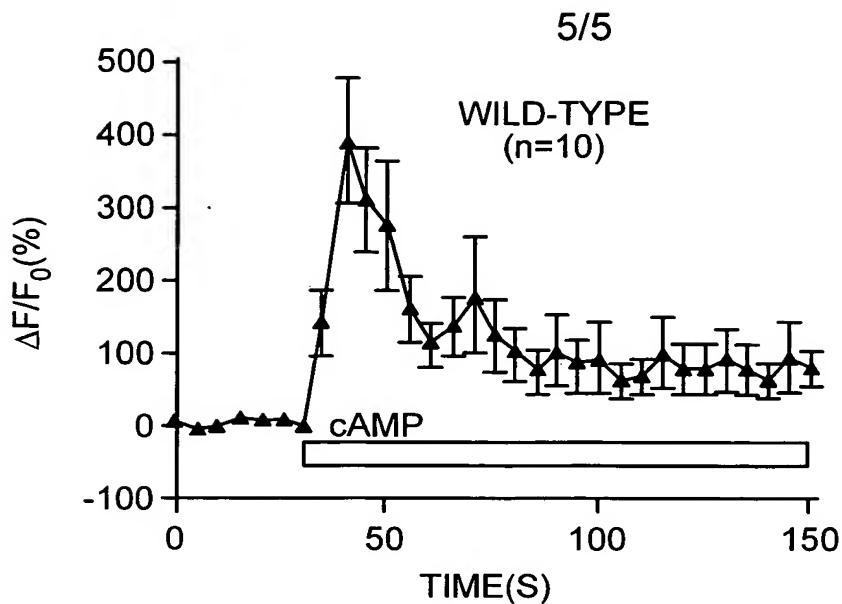


FIG. 5A-1

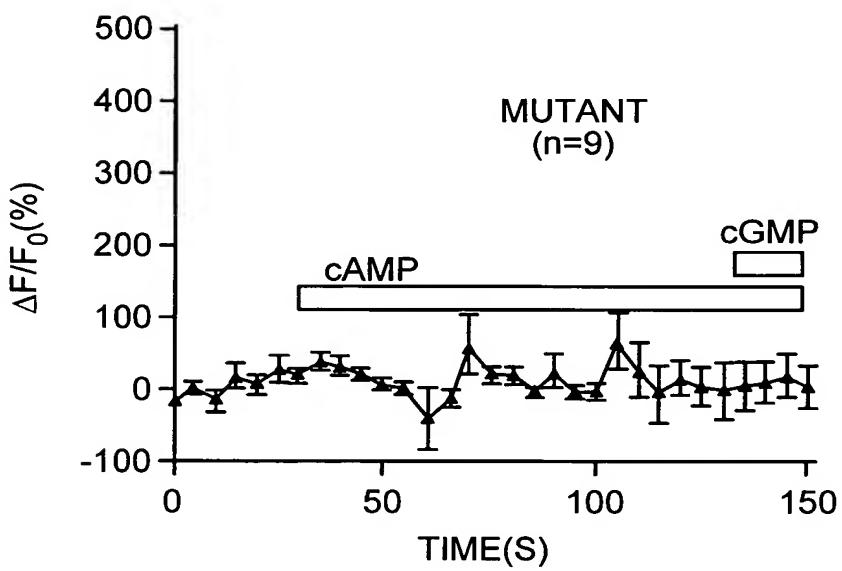


FIG. 5A-2

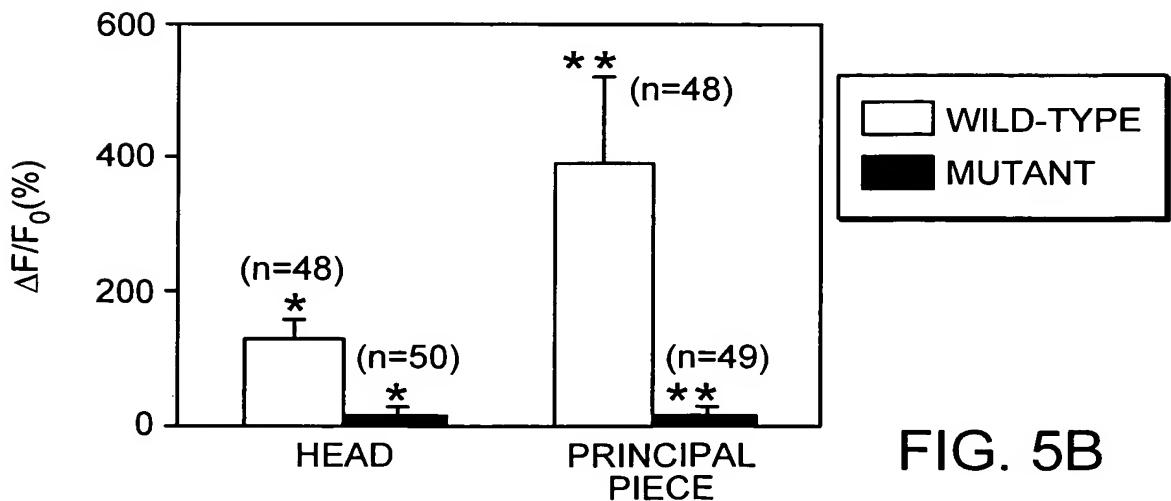


FIG. 5B